

МЕЖДУНАРОДНАЯ ЗАЯВКА, ОПУБЛИКОВАННАЯ В СООТВЕТСТВИИ
С ДОГОВОРом О ПАТЕНТНОЙ КООПЕРАЦИИ (РСТ)

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(54) Title: PROJECTION SYSTEM**(54) Название изобретения: ПРОЕКЦИОННАЯ СИСТЕМА****(57) Abstract**

The present invention relates to projection systems for displaying visual information. These projection systems can be used in the fields of television, computer techniques, medicine, cinema, transports as well as in other applications in order to reduce the projection area, the weight and the dimensions thereof. In one embodiment shown in fig. 1, the projection system for producing an external surface projection on a visualisation screen comprises a flat and thin visualisation screen for carrying out a projection on both sides. Images can thus be watched on the left side (1a) and on the right side (1b) of this screen. From the surface of the screen and on the left and right sides thereof, projectors (2a, 2b) are provided for projecting images simultaneously on both sides of the screen. Light diffusers (3a, 3b) are also provided on both sides of the screen for capturing, diverting and diffusing the projection beams respectively on the left or right sides relative to the image observation direction. The projections are converted through the optics of the projectors (2a, 2b) so as to form reduced-divergence projection beams (α_1 , α_2) which are entirely captured by the light diffusers and which are diverted and diffused at wide angles (β_1 or β_2) of image observation ranges. The surface of the screen (1) may include a mat antiglare blackening or the screen may have an adjustable transparency.

